

**WHAT IS CLAIMED IS:**

- 1                   1. A weighing pan operable to weigh a test weight on a comparator
- 2                   balance, wherein said weighing pan comprises:
  - 3                   a coated surface with a coating of a polymer lacquer, wherein said
  - 4                   coated surface in relation to said test weight has a first sliding friction and a first
  - 5                   adhesive friction that are at least twice as strong, respectively, as a second sliding
  - 6                   friction and a second adhesive friction between the test weight and a non-coated,
  - 7                   polished surface of an analogous weighing pan made of hard metal.
- 1                   2. The weighing pan according to claim 1, wherein the polymer
- 2                   lacquer comprises:
  - 3                   a base material and additional components including a hardening agent.
- 1                   3. The weighing pan according to claim 2, wherein the base material
- 2                   comprises polyurethane.
- 1                   4. The weighing pan according to claim 1, wherein the polymer
- 2                   lacquer contains antistatic agents in a proportion not exceeding three percent by
- 3                   weight.
- 1                   5. The weighing pan according to claim 1, wherein the coating is at
- 2                   least 10 micrometers thick.

1                   6. The weighing pan according to claim 1, wherein the coating has a  
2 Shore D hardness of more than 50.

1                   7. The weighing pan according to claim 1, wherein the coating is  
2 resistant to solvents.

1                   8. The weighing pan according to Claim 1, wherein the coating is  
2 resistant to fluids used in measuring the density of bodies, said fluids belonging to  
3 the group consisting of water, FC40 fluorocarbon, and silane-containing fluids.

1                   9. The weighing pan according claim 1, the weighing pan being  
2 configured to cooperate with a platform of a weight changer for transferring the  
3 test weight, wherein the platform is movable up and down relative to the weighing  
4 pan while the weighing pan reaches through the platform without making contact  
5 with the platform.

1                   10. The weighing pan according claim 9, wherein the platform  
2 comprises a platform surface coated with the polymer lacquer.  
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